Harrisburg School District
Acquisition Lesson Planning Form
Plan for the Concept, Topic, or Skill ---Not for the Day

Essential Question: 6-7 Percents and Equations
L.E.Q.: How are equations used to solve percent problems?

Activating Strategies: (Learners Mentally Active)
Divide the students into five groups. Distribute one of the following cards to each group:

1. Change the following percents into decimals: 14.7%, 1%, .13%, 643%
2. Create an equation to show the following: What is seven increased by four?
3. Create an equation to show the following: What number increased by four would equal eleven?
4. Create an equation to show the following: What number would you increase by seven so the result is eleven?
5. Create an equation to show the following: what is the result of seven decreased by six?

Circulate to review and clear up any misconceptions. After completing the activity, each group will explain how they derived their answers. Copy the rules on the board as the students explain the process of converting percents to decimals and converting a word sentence into a mathematical sentence. Example: is means =, what number means variable.

Acceleration/Previewing: (Key Vocabulary)
Commission
Ask students if they can think of a job where a commission is paid. If they have never heard of the word, explain that some sales jobs pay an amount based on how much you sell. This is called a commission. Give examples: car sales, real estate sales, etc.

Teaching Strategies: (Collaborative Pairs; Distributed Guided Practice; Distributed Summarizing; Graphic Organizers)

Copy the following sentences on the board:

Finding Percent	Finding a Part	Finding the Whole
What percent of 17 is 7?	What is 45 percent of 12?	16 is 90 percent of what Number?

Graphic Organizer: Percent Equations
Have students make an off-center foldable G.O.
Label each tab as follows: Finding Percent, Finding a part, and Finding the Whole
Under each tabbed section, students will copy the appropriate problem from the board.
With the classes help, change each problem into a mathematical equation and solve.
Stress with students that what means variable, of means multiply, and is means equals.
Students will transfer this information into their graphic organizer.

Distributed Guided Practice/Summarizing Prompts: (Prompts Designed to Initiate Periodic Practice or Summarizing)

With a partner, students will complete both sides of the hidden message worksheet in class.
Homework : Practice worksheet 6-7

Summarizing Strategies: Learners Summarize & Answer Essential Question

Convert the following sentences into mathematical equations and solve.
What is 5 percent of 7?
What percent of 9 is 4?
18 is 70 percent of what number?